

WEST Search History

DATE: Friday, September 22, 2006

Hide? Set Name Query Hit Count

DB=USPT; PLUR=YES; OP=OR

<input type="checkbox"/>	L2	546/80	243
<input type="checkbox"/>	L1	514/292	653

END OF SEARCH HISTORY

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1612RXD

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that

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FILE 'HOME' ENTERED AT 15:59:19 ON 14 APR 2006

=> file registry
COST IN U.S. DOLLARS . SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST . 0.21 0.21

FILE 'REGISTRY' ENTERED AT 15:59:28 ON 14 APR 2006
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STRUCTURE FILE UPDATES: 12 APR 2006 HIGHEST RN 880252-04-0
DICTIONARY FILE UPDATES: 12 APR 2006 HIGHEST RN 880252-04-0

New CAS Information Use Policies. enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005. A new display format, IDERL, is now
* available and contains the CA role and document type information.
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

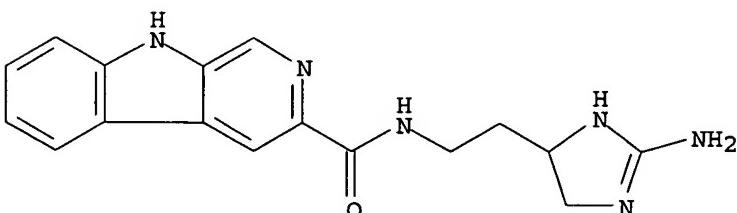
=> s tiruchenduramine/cn
L1 1 TIRUCHENDURAMINE/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 858343-35-8 REGISTRY
 ED Entered STN: 04 Aug 2005
 CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Tiruchanduramine
 CN Tiruchenduramine
 FS STEREOSEARCH
 MF C17 H18 N6 O
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file casreact			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	7.10	7.31	

FILE 'CASREACT' ENTERED AT 16:00:18 ON 14 APR 2006
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FILE CONTENT:1840 - 9 Apr 2006 VOL 144 ISS 15

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 * *
 * CASREACT now has more than 10 million reactions *
 * *****

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance

identification.

```
=> s l1
L2          0 L1

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST
```

SINCE FILE ENTRY	TOTAL SESSION
28.64	35.95

FILE 'CAPLUS' ENTERED AT 16:00:30 ON 14 APR 2006
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FILE COVERS 1907 - 14 Apr 2006 VOL 144 ISS 17
 FILE LAST UPDATED: 13 Apr 2006 (20060413/ED)

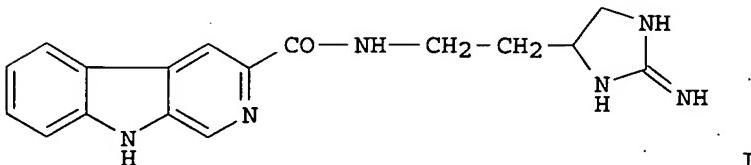
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s l1/p
L3          2 L1/P

=> d abs bib hitstr 1-2
```

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 GI



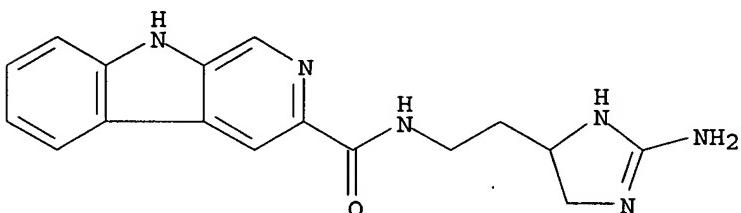
AB The isolation and synthesis of the racemic form of a novel β -carboline guanidine alkaloid, tiruchanduramine (I), a potent α -glucosidase inhibitor from the Indian ascidian, *Synoicum macroglossum* has been achieved.

AN 2005:614681 CAPLUS
 DN 143:169694

TI Isolation and synthesis of a novel β -carboline guanidine derivative tiruchanduramine from the Indian ascidian *Synoicum macroglossum*

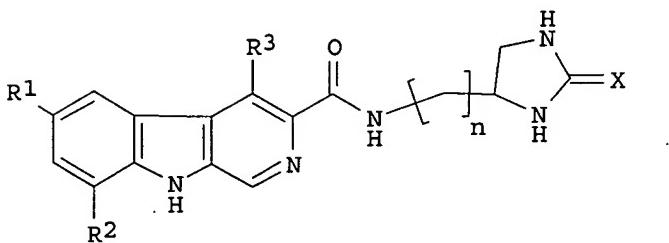
AU Ravinder, K.; Reddy, A. Vijender; Krishnaiah, P.; Ramesh, P.; Ramakrishna, S.; Laatsch, H.; Venkateswarlu, Y.
 CS Natural Products Laboratory, Organic Chemistry Division-I, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
 SO Tetrahedron Letters (2005), 46(33), 5475-5478
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier B.V.
 DT Journal
 LA English
 IT 858343-35-8P, Tiruchanduramine
 RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation) (isolation and synthesis of a novel β -carboline guanidine derivative tiruchanduramine from the Indian ascidian *Synoicum macroglossum*)
 RN 858343-35-8 CAPLUS
 CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-imidazol-4-yl)ethyl] - (9CI) (CA INDEX NAME)

Currently available stereo shown.



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
GI

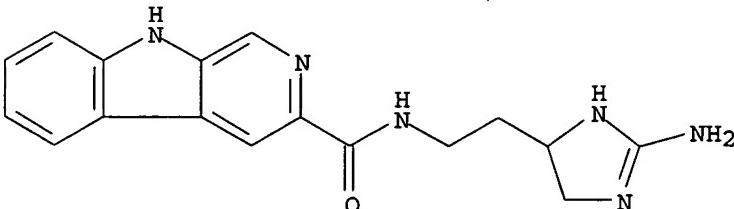


AB The invention relates to a process for the isolation of β -carboline guanidine alkaloid, tiruchenduramine I [R1-R3 = H, n = 2, X = NH] and its derivs., I [R1 = H, piperazine; R2, R3 = H; n = 2-6; X = NH, O], from the Indian ascidian *Synoicum macroglossum*. I are useful in the treatment of diabetic disorder by providing inhibition of α -glucosidase.
 AN 2005:612288 CAPLUS
 DN 143:130287
 TI Isolation of β -carboline derived guanidine alkaloid, tiruchenduramine and its derivatives from Indian ascidian *Synoicum macroglossum* and their use in the treatment of diabetic disorder
 IN Venkateswarlu, Yenamandra; Ravinder, Kodela; Yadav, Jhillu Singh;

Sarathkumar, Yandrapu; Ramakrishna, Sistla; Diwan, Prakash Vamanarao; Rao, Janapala Venkateswara; Ramesh, Ratnam; Laatsch, Hartmut
 PA Council of Scientific and Industrial Research, India; Department of Ocean Development
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005063748	A1	20050714	WO 2003-IN444	20031231
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003300701	A1	20050721	AU 2003-300701	20031231
	US 2005222168	A1	20051006	US 2004-814777	20040330
PRAI	WO 2003-IN444	A	20031231		
IT	858343-35-8P, Tiruchenduramine				
	RL: IMF (Industrial manufacture); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses) (isolation of tiruchenduramine and its derivs. from Indian ascidian Synoicum macroglossum and their use in the treatment of diabetic disorder)				
RN	858343-35-8 CAPLUS				
CN	9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)				

Currently available stereo shown.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.14	47.09
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

STN INTERNATIONAL LOGOFF AT 16:01:37 ON 14 APR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID : SSSPTA1612RXD

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 MAY 10 CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5 MAY 11 KOREAPAT updates resume
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAplus
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAplus enhanced with more pre-1907 records
NEWS 19 SEP 21 CA/CAplus fields enhanced with simultaneous left and right truncation

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 |
| NEWS X25 | X.25 communication option no longer available |

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:13:38 ON 22 SEP 2006

=>

=> s tiruchenduramine/cn

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (>) for a list of commands which can be used in this file.

=> s tiruchenduramine

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (>) for a list of commands which can be used in this file.

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 0.21 | 0.21 |

FILE 'CAPLUS' ENTERED AT 16:14:11 ON 22 SEP 2006

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FILE COVERS 1907 - 22 Sep 2006 VOL 145 ISS 14

FILE LAST UPDATED: 21 Sep 2006 (20060921/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s tiruchenduramine

L1 1 TIRUCHENDURAMINE

=> d

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:612288 CAPLUS

DN 143:130287

TI Isolation of β-carboline derived guanidine alkaloid,
tiruchenduramine and its derivatives from Indian ascidian Synoicum

macroglossum and their use in the treatment of diabetic disorder
 IN Venkateswarlu, Yenamandra; Ravinder, Kodela; Yadav, Jhillu Singh;
 Sarathkumar, Yandrapu; Ramakrishna, Sistla; Diwan, Prakash Vamanarao; Rao,
 Janapala Venkateswara; Ramesh, Ratnam; Laatsch, Hartmut

PA Council of Scientific and Industrial Research, India; Department of Ocean
 Development

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2005063748 | A1 | 20050714 | WO 2003-IN444 | 20031231 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2003300701 | A1 | 20050721 | AU 2003-300701 | 20031231 |
| | US 2005222168 | A1 | 20051006 | US 2004-814777 | 20040330 |
| PRAI | WO 2003-IN444 | A | 20031231 | | |

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s ascidian
 2021 ASCIDIAN
 798 ASCIDIANS
 L2 2253 ASCIDIAN
 (ASCIDIAN OR ASCIDIANS)

=> s l2 and isolation of drug
 253218 ISOLATION
 1189 ISOLATIONS
 253967 ISOLATION
 (ISOLATION OR ISOLATIONS)
 673917 DRUG
 320834 DRUGS
 832910 DRUG
 (DRUG OR DRUGS)
 142 ISOLATION OF DRUG
 (ISOLATION(1W)DRUG)
 L3 0 L2 AND ISOLATION OF DRUG

=> s l2 and (isolation of drug)
 253218 ISOLATION
 1189 ISOLATIONS
 253967 ISOLATION
 (ISOLATION OR ISOLATIONS)
 673917 DRUG
 320834 DRUGS
 832910 DRUG
 (DRUG OR DRUGS)
 142 ISOLATION OF DRUG

(ISOLATION(1W)DRUG)

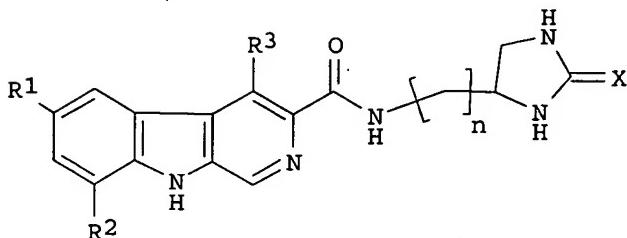
L4 0 L2 AND (ISOLATION OF DRUG)

=> s 12 and diabetes

115662 DIABETES

L5 1 L2 AND DIABETES

=> d abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
GI

AB The invention relates to a process for the isolation of β -carboline guanidine alkaloid, tiruchenduramine I [R₁-R₃ = H, n = 2, X = NH] and its derivs., I [R₁ = H, piperazine; R₂, R₃ = H; n = 2-6; X = NH, O], from the Indian ascidian *Synoicum macroglossum*. I are useful in the treatment of diabetic disorder by providing inhibition of α -glucosidase.

=> s guanidine alkloid

32513 GUANIDINE

2969 GUANIDINES

33413 GUANIDINE

(GUANIDINE OR GUANIDINES)

15 ALKOLOID

15 ALKOLOIDS

30 ALKOLOID

(ALKOLOID OR ALKOLOIDS)

L6 0 GUANIDINE ALKOLOID

(GUANIDINE (W) ALKOLOID)

=> s guanidine alkloid

32513 GUANIDINE

2969 GUANIDINES

33413 GUANIDINE

(GUANIDINE OR GUANIDINES)

54359 ALKALOID

69105 ALKALOIDS

82751 ALKALOID

(ALKALOID OR ALKALOIDS)

L7 58 GUANIDINE ALKALOID

(GUANIDINE (W) ALKALOID)

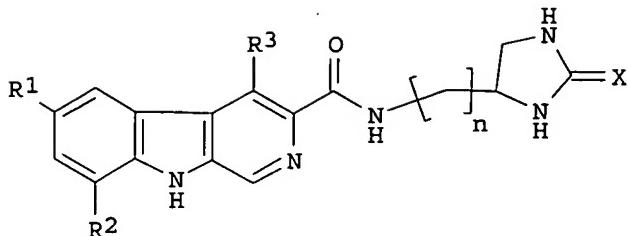
=> s 17 and diabetes

115662 DIABETES

L8 1 L7 AND DIABETES

=> d abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
GI



AB The invention relates to a process for the isolation of β -carboline guanidine alkaloid, tiruchenduramine I [R1-R3 = H, n = 2, X = NH] and its derivs., I [R1 = H, piperazine; R2, R3 = H; n = 2-6; X = NH, O], from the Indian ascidian *Synoicum macroglossum*. I are useful in the treatment of diabetic disorder by providing inhibition of α -glucosidase.

=> s 17 and glucose

408175 GLUCOSE
776 GLUCOSSES
408329 GLUCOSE
(GLUCOSE OR GLUCOSSES)

L9 0 L7 AND GLUCOSE

=> s 17 and disorder

251189 DISORDER
186589 DISORDERS
391139 DISORDER
(DISORDER OR DISORDERS)

L10 1 L7 AND DISORDER

=> file registry

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 36.24 | 36.45 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -1.50 | -1.50 |

FILE 'REGISTRY' ENTERED AT 16:20:14 ON 22 SEP 2006
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STRUCTURE FILE UPDATES: 21 SEP 2006 HIGHEST RN 908228-18-2
 DICTIONARY FILE UPDATES: 21 SEP 2006 HIGHEST RN 908228-18-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

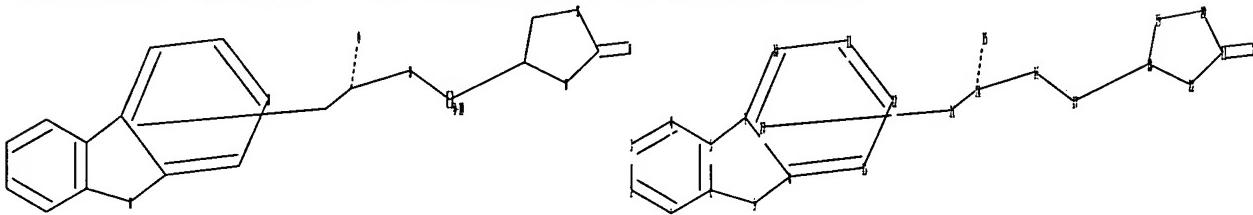
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10814777.str



chain nodes :

14 15 16 17 23 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 18 19 20 21 22

chain bonds :

14-16 14-15 14-26 16-17 17-18 21-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13
 18-19 18-22 19-20 20-21 21-22

exact/norm bonds :

6-9 8-9 14-16 14-15 16-17 18-19 18-22 19-20 20-21 21-22 21-23

exact bonds :

14-26 17-18

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 7-10 8-13 10-11 11-12 12-13

Match level :

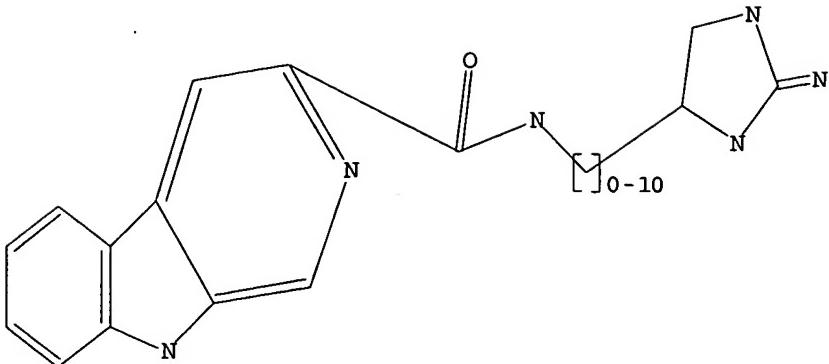
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom 19:Atom
 20:Atom 21:Atom 22:Atom 23:CLASS 26:CLASS 27:Atom

L11 STRUCTURE UPLOADED

=> d 111

10511525

L11 HAS NO ANSWERS
 L11 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l11

SAMPLE SEARCH INITIATED 16:20:32 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
 PROJECTED ANSWERS: 0 TO 0

L12 0 SEA SSS SAM L11

=> s l11 ful
 FULL SEARCH INITIATED 16:20:38 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS 13 ANSWERS
 SEARCH TIME: 00.00.01

L13 13 SEA SSS FUL L11

| | | | |
|--|------------|---------|--|
| => file caplus | | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| FULL ESTIMATED COST | 166.94 | 203.39 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| CA SUBSCRIBER PRICE | 0.00 | -1.50 | |

FILE 'CAPLUS' ENTERED AT 16:20:44 ON 22 SEP 2006
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FILE COVERS 1907 - 22 Sep 2006 VOL 145 ISS 14
 FILE LAST UPDATED: 21 Sep 2006 (20060921/ED)

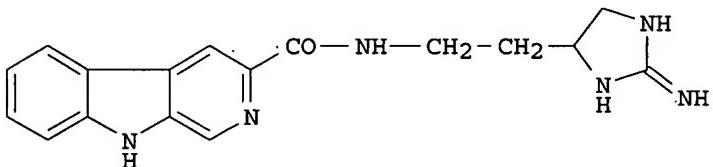
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=> s l13
 L14 2 L13

=> d abs bib hitstr

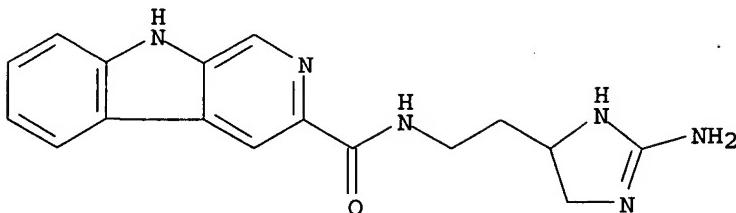
L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 GI



- AB The isolation and synthesis of the racemic form of a novel β -carboline guanidine alkaloid, tiruchanduramine (I), a potent α -glucosidase inhibitor from the Indian ascidian, *Synoicum macroglossum* has been achieved.
- AN 2005:614681 CAPLUS
- DN 143:169694
- TI Isolation and synthesis of a novel β -carboline guanidine derivative tiruchanduramine from the Indian ascidian *Synoicum macroglossum*
- AU Ravinder, K.; Reddy, A. Vijender; Krishnaiah, P.; Ramesh, P.; Ramakrishna, S.; Laatsch, H.; Venkateswarlu, Y.
- CS Natural Products Laboratory, Organic Chemistry Division-I, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
- SO Tetrahedron Letters (2005), 46(33), 5475-5478
- CODEN: TELEAY; ISSN: 0040-4039
- PB Elsevier B.V.
- DT Journal
- LA English
- IT 858343-35-8P, Tiruchanduramine
- RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation) (isolation and synthesis of a novel β -carboline guanidine derivative tiruchanduramine from the Indian ascidian *Synoicum macroglossum*)
- RN 858343-35-8 CAPLUS
- CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-

imidazol-4-yl)ethyl] - (9CI) (CA INDEX NAME)

Currently available stereo shown.



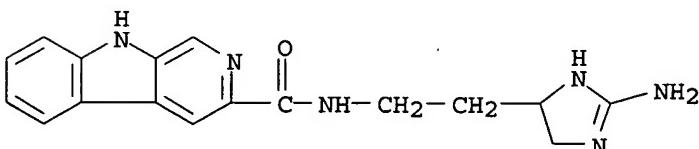
IT 861390-41-2, (+)-Tiruchanduramine

RL: RCT (Reactant); RACT (Reactant or reagent)

(isolation and synthesis of a novel β -carboline guanidine derivative tiruchanduramine from the Indian ascidian *Synoicum macroglossum*)

RN 861390-41-2 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-imidazol-4-yl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

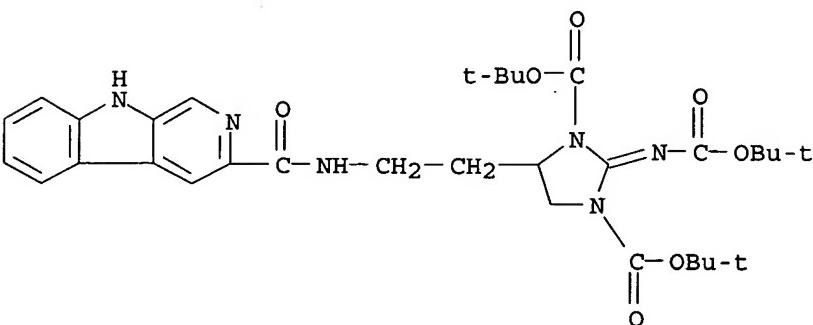
IT 861257-04-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(isolation and synthesis of a novel β -carboline guanidine derivative tiruchanduramine from the Indian ascidian *Synoicum macroglossum*)

RN 861257-04-7 CAPLUS

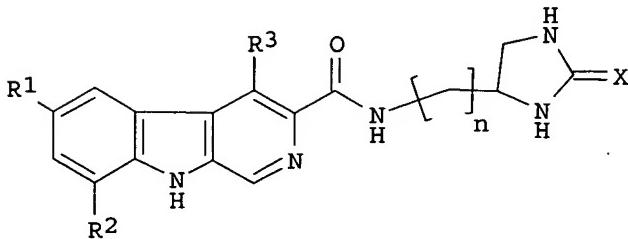
CN 1,3-Imidazolidinedicarboxylic acid, 2-[[[(1,1-dimethylethoxy)carbonyl]imino]-4-[2-[(9H-pyrido[3,4-b]indol-3-ylcarbonyl)amino]ethyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d abs bib hitstr 2

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
GI



AB The invention relates to a process for the isolation of β -carboline guanidine alkaloid, tiruchenduramine I [R1-R3 = H, n = 2, X = NH] and its derivs., I [R1 = H, piperazine; R2, R3 = H; n = 2-6; X = NH, O], from the Indian ascidian *Synoicum macroglossum*. I are useful in the treatment of diabetic disorder by providing inhibition of α -glucosidase.

AN 2005:612288 CAPLUS

DN 143:130287

TI Isolation of β -carboline derived guanidine alkaloid, tiruchenduramine and its derivatives from Indian ascidian *Synoicum macroglossum* and their use in the treatment of diabetic disorder

IN Venkateswarlu, Yenamandra; Ravinder, Kodela; Yadav, Jhillu Singh; Sarathkumar, Yandrapu; Ramakrishna, Sistla; Diwan, Prakash Vamanarao; Rao, Janapala Venkateswara; Ramesh, Ratnam; Laatsch, Hartmut

PA Council of Scientific and Industrial Research, India; Department of Ocean Development

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

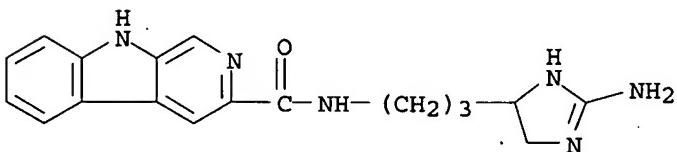
LA English

FAN.CNT 1

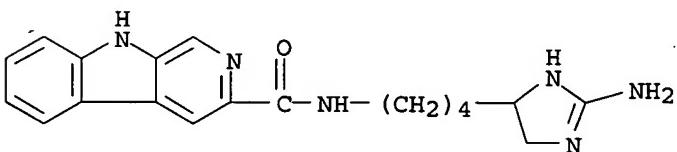
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2005063748 | A1 | 20050714 | WO 2003-IN444 | 20031231 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2003300701 | A1 | 20050721 | AU 2003-300701 | 20031231 |
| | US 2005222168 | A1 | 20051006 | US 2004-814777 | 20040330 |
| PRAI | WO 2003-IN444 | A | 20031231 | | |

IT 857840-45-0P 857840-46-1P 857840-47-2P
 857840-48-3P 857840-56-3P 857840-57-4P
 857840-59-6P 857840-61-0P 857840-63-2P
 858343-35-8P, Tiruchenduramine
 RL: IMF (Industrial manufacture); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (isolation of tiruchenduramine and its derivs. from Indian ascidian Synoicum macroglossum and their use in the treatment of diabetic disorder)

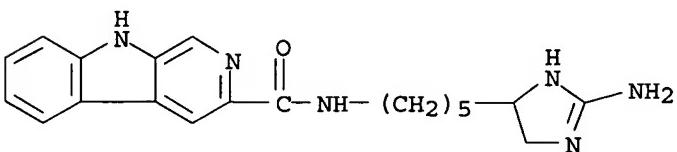
RN 857840-45-0 CAPLUS
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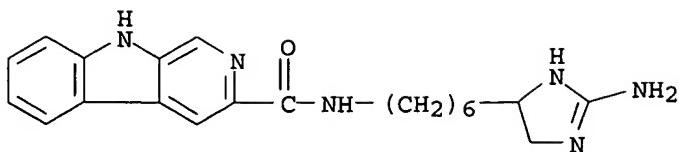
RN 857840-46-1 CAPLUS
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RN 857840-47-2 CAPLUS
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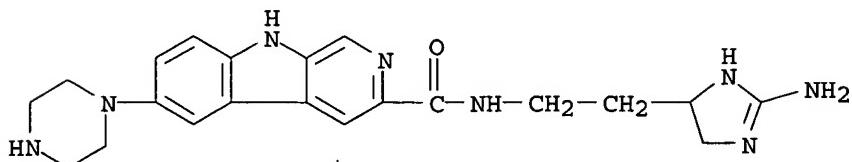


RN 857840-48-3 CAPLUS
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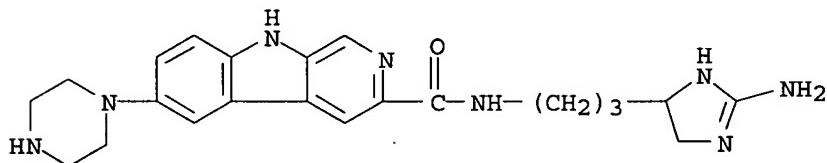
RN 857840-56-3 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-imidazol-4-yl)ethyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 857840-57-4 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[3-(2-amino-4,5-dihydro-1H-imidazol-4-yl)propyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



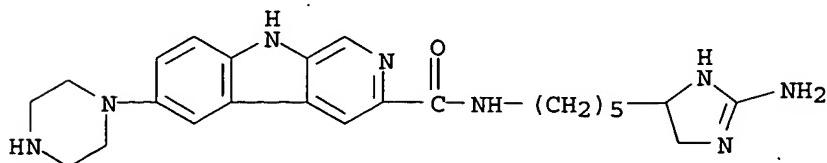
RN 857840-59-6 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[4-(2-amino-4,5-dihydro-1H-imidazol-4-yl)butyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



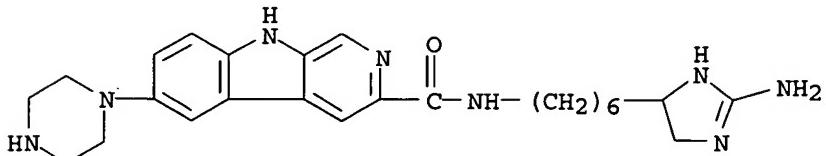
RN 857840-61-0 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[5-(2-amino-4,5-dihydro-1H-imidazol-4-yl)pentyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 857840-63-2 CAPLUS

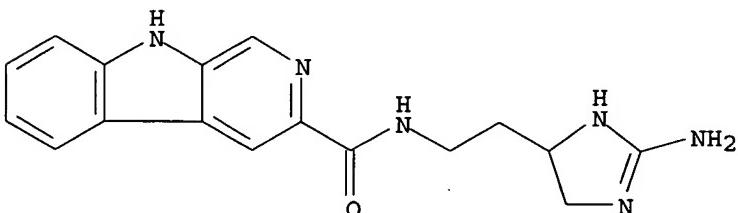
CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[6-(2-amino-4,5-dihydro-1H-imidazol-4-yl)hexyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 858343-35-8 CAPLUS

CN 9H-Pyrido[3,4-b]indole-3-carboxamide, N-[2-(2-amino-4,5-dihydro-1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)

Currently available stereo shown.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
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| | | | |
|--|------------|---------|--|
| => file stnguide | | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL | |
| FULL ESTIMATED COST | ENTRY | SESSION | |
| | 11.14 | 214.53 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| CA SUBSCRIBER PRICE | ENTRY | SESSION | |
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Sep 15, 2006 (20060915/UP).

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 DICTIONARY FILE UPDATES: 21 SEP 2006 HIGHEST RN 908228-18-2

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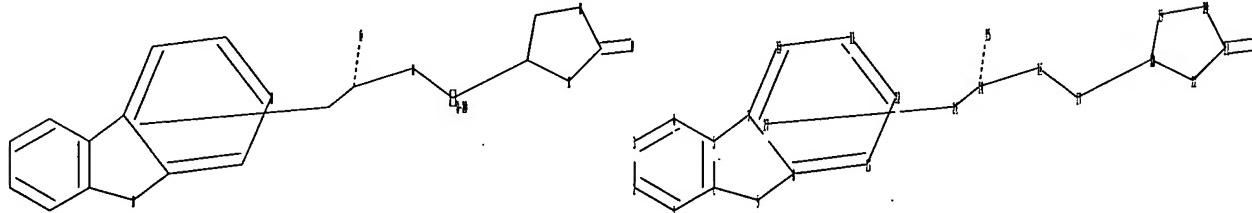
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<http://www.cas.org/ONLINE/UG/regprops.html>

=>
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14 15 16 17 23 26
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 18 19 20 21 22
chain bonds :
14-16 14-15 14-26 16-17 17-18 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13
18-19 18-22 19-20 20-21 21-22
exact/norm bonds :
6-9 8-9 14-16 14-15 16-17 18-19 18-22 19-20 20-21 21-22 21-23
exact bonds :
14-26 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 7-10 8-13 10-11 11-12 12-13

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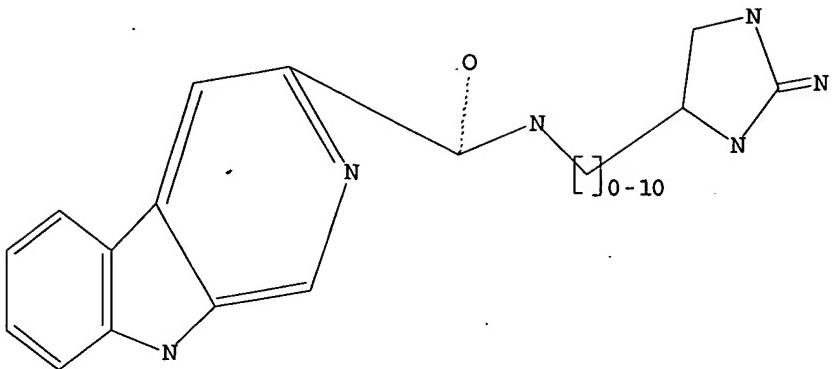
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11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 26:CLASS 27:Atom

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10511525

L15 STRUCTURE UPLOADED

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 L15 HAS NO ANSWERS
 L15 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 115
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 100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
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 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 0 TO 0
 PROJECTED ANSWERS: 0 TO 0

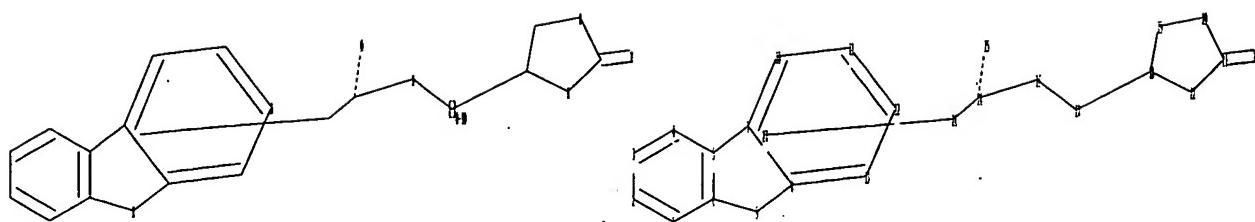
L16 0 SEA SSS SAM L15

=> s 115 ful
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100.0% PROCESSED 16 ITERATIONS 13 ANSWERS
 SEARCH TIME: 00.00.01

L17 13 SEA SSS FUL L15

=>
 Uploading C:\Program Files\Stnexp\Queries\10814777.str



chain nodes :

14 15 16 17 23 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 18 19 20 21 22

chain bonds :

14-16 14-15 14-26 16-17 17-18 21-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13

18-19 18-22 19-20 20-21 21-22

exact/norm bonds :

6-9 8-9 14-16 14-15 16-17 18-19 18-22 19-20 20-21 21-22 21-23

exact bonds :

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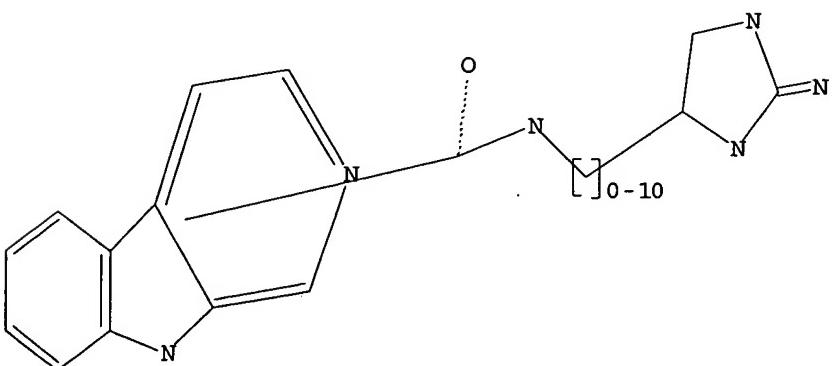
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L18 STRUCTURE UPLOADED

=> d l18

L18 HAS NO ANSWERS

L18 STR



10511525

Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED      0 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:    0 TO      0
PROJECTED ANSWERS:       0 TO      0
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L19 0 SEA SSS SAM L18

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=> s 118 ful
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FULL SCREEN SEARCH COMPLETED -          0 TO ITERATE
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100.0% PROCESSED      0 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
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L20 0 SEA SSS FUL L18

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| | ENTRY | SESSION | |
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| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| CA SUBSCRIBER PRICE | 0.00 | -3.00 | |

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 DICTIONARY FILE UPDATES: 21 SEP 2006 HIGHEST RN 908228-18-2

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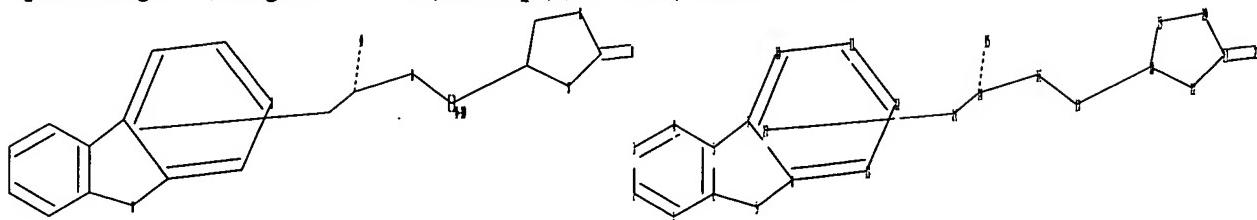
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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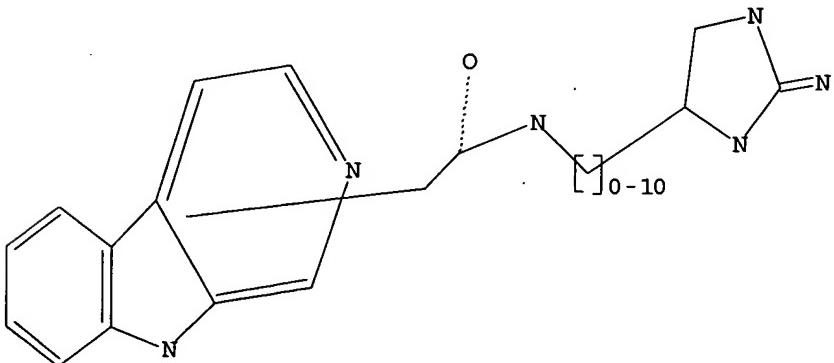


chain nodes :
14 15 16 17 23 26
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 18 19 20 21 22
chain bonds :
14-16 14-15 14-26 16-17 17-18 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13
18-19 18-22 19-20 20-21 21-22
exact/norm bonds :
6-9 8-9 14-16 14-15 16-17 18-19 18-22 19-20 20-21 21-22 21-23
exact bonds :
14-26 17-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 7-10 8-13 10-11 11-12 12-13

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 26:CLASS 27:Atom

L21 STRUCTURE UPLOADED

=> d 121
L21 HAS NO ANSWERS
L21 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s 121
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SAMPLE SCREEN SEARCH COMPLETED -          0 TO ITERATE

100.0% PROCESSED      0 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                           BATCH **COMPLETE**
PROJECTED ITERATIONS:    0 TO      0
PROJECTED ANSWERS:       0 TO      0
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L22 0 SEA SSS SAM L21

```
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FULL SCREEN SEARCH COMPLETED -          0 TO ITERATE
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100.0% PROCESSED      0 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
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L23 0 SEA SSS FUL L21

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                                ENTRY          SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE      TOTAL
                                                ENTRY          SESSION
CA SUBSCRIBER PRICE          0.00            -3.00
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